

IN THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-20 (**Canceled**).

21. (New) Matched capacitors, comprising:

at least two fringing capacitors, each of the fringing capacitors comprising at least two split capacitors;

a first split capacitor of a first one of the fringing capacitors is arranged adjacent a first capacitor of a second one of the fringing capacitors;

the first split capacitor of the first one of the fringing capacitors is arranged adjacent a second split capacitor of the second one of the fringing capacitors;

a second split capacitor of the first one of the fringing capacitors is arranged adjacent the first split capacitor of the second one of the fringing capacitors;

the second split capacitor of the first one of the fringing capacitors is arranged adjacent the second split capacitor of the second one of the fringing capacitors;

the first split capacitor of the first one of the fringing capacitors is electrically coupled to the second split capacitor of the first one of the fringing capacitors; and

the first split capacitor of the second one of the fringing capacitors is electrically coupled to the second split capacitor of the second one of the fringing capacitors.

22. (New) The matched capacitors of Claim 21 wherein each split capacitor includes;

at least two conductor layers spaced apart from each other;

each conductor layer including at least two portions, the portions including odd ones alternating with even ones, adjacent odd ones and even ones of the portions spaced apart;

the odd ones of the portions on a first one of the conductor layers are configured to substantially overlay the odd ones of the portions on an adjacent one of the conductor layers,

the even ones of the portions on the first one of the conductor layers are configured to substantially overlay the even ones of the portions on the adjacent one of the conductor layers;

the odd ones of the portions on the first one of the conductor layers being electrically coupled together and to the even ones of the portions on the adjacent one of the conductor layers thereby defining a first electrode;

the even ones of the portions on the first one of the conductor layers being electrically coupled together and to the odd ones of the portions on the adjacent one of the conductor layers thereby defining a second electrode; and

a dielectric interposed between the first and second electrodes.

23. (New) The matched capacitors of Claim 22 wherein the first split capacitor and the second split capacitor of each of the fringing capacitors are approximately equal.

24. (New) The matched capacitors of Claim 22 wherein each of the fringing capacitors includes at least 10 portions.

25. (New) The matched capacitors of Claim 22 wherein the fringing capacitor includes an even number of portions.

26. (New) The matched capacitors of Claim 22 further comprising a guardband.

27. (New) The matched capacitors of Claim 26 wherein the guardband is spaced approximately a predetermined distance d_g from the first and second electrodes;

wherein adjacent odd ones and even ones of the portions are spaced apart approximately a predetermined distance d_h ; and

wherein the distance d_g is selected to be about twice the distance d_h .

28. (New) The matched capacitors of Claim 27 wherein the guardband is comprised of a conductive material.

29. (New) The matched capacitors of Claim 28 wherein the conductive material is selected from the group of aluminum, polysilicon, and copper.

30. (New) The matched capacitors of Claim 26 wherein the guardband includes a conductive layer overlaying the conductors.

31. (New) Matching capacitors, comprising:

an intralayer capacitance forming means of a first fringing capacitor being divided to form a first split capacitor and a second split capacitor;

an intralayer capacitance forming means of a second fringing capacitor being divided to form a first split capacitor and a second split capacitor;

the first split capacitor of the first fringing capacitor being coupled to the second split capacitor of the second fringing capacitor to form a first matched capacitor; and

the second split capacitor of the first fringing capacitor being coupled to the first split capacitor of the second fringing capacitor to form a second matched capacitor.

32. (New) The matching capacitors of Claim 31 wherein:

the first split capacitor of the first fringing capacitor is arranged adjacent the second split capacitor of the second fringing capacitor and the second split capacitor of the first fringing capacitor; and

the second split capacitor of the first fringing capacitor is arranged adjacent the first split capacitor of the second fringing capacitor and the first split capacitor of the first fringing capacitor.

33. (New) The matching capacitors of Claim 32 wherein each split capacitor includes;

at least two conductor layers spaced apart from each other;

each conductor layer including at least two portions, the portions including odd ones alternating with even ones, adjacent odd ones and even ones of the portions spaced apart;

the odd ones of the portions on a first one of the conductor layers are configured to substantially overlay the odd ones of the portions on an adjacent one of the conductor layers,

the even ones of the portions on the first one of the conductor layers are configured to substantially overlay the even ones of the portions on the adjacent one of the conductor layers;

the odd ones of the portions on the first one of the conductor layers being electrically coupled together and to the even ones of the portions on the adjacent one of the conductor layers thereby defining a first electrode;

the even ones of the portions on the first one of the conductor layers being electrically coupled together and to the odd ones of the portions on the adjacent one of the conductor layers thereby defining a second electrode; and

a means for dielectrically separating being interposed between the first and second electrodes.

34. (New) The matching capacitors of Claim 33 wherein the first split capacitor and the second split capacitor of the fringing capacitors are approximately equal.

35. (New) The matching capacitors of Claim 33 wherein each fringing capacitor includes at least 10 portions.

36. (New) The matching capacitors of Claim 33 wherein each fringing capacitor includes an even number of portions.

37. (New) The matching capacitors of Claim 33 further comprising a means for shielding.

38. (New) The matching capacitors of Claim 37 wherein the shielding means is spaced approximately a distance d_g from the electrodes;

wherein adjacent odd ones and even ones of the portions are spaced apart approximately a predetermined distance d_h ; and

wherein the distance d_g is selected to be about twice the distance d_h .

39. (New) A set of matched capacitors comprising:

a first capacitor comprising:

a first section comprising:

a first electrode comprising:

a first portion arranged on a first layer; and

a second portion arranged on a second layer; and

a second electrode comprising:

a first portion arranged over said first portion of said first electrode and adjacent to said second portion of said first electrode; and

a second portion arranged under said second portion of said first electrode and adjacent to said first portion of said first electrode;

a second section comprising:

said first electrode comprising:

_____ a third portion arranged on a first layer; and
_____ a fourth portion arranged on a second layer; and
_____ said second electrode comprising:
_____ a third portion arranged over said third portion
of said first electrode and adjacent to said fourth portion of said first electrode; and
_____ a fourth portion arranged under said fourth
portion of said first electrode and adjacent to said third portion of said first electrode;
_____ a second capacitor comprising:
_____ a first section comprising:
_____ a third electrode comprising:
_____ a first portion arranged on a first layer; and
_____ a second portion arranged on a second layer; and
_____ a fourth electrode comprising:
_____ a first portion arranged over said first portion of
said third electrode and adjacent to said second portion of said third electrode; and
_____ a second portion arranged under said second
portion of said third electrode and adjacent to said first portion of said third electrode;
_____ a second section comprising:
_____ said third electrode comprising:
_____ a third portion arranged on a first layer; and
_____ a fourth portion arranged on a second layer; and
_____ said second electrode comprising:
_____ a third portion arranged over said third portion
of said third electrode and adjacent to said fourth portion of said third electrode;

_____ a fourth portion arranged under said fourth portion of said third electrode and adjacent to said third portion of said third electrode;

_____ wherein said first section of said first capacitor is arranged adjacent to said first section of said second capacitor and said second section of said second capacitor,

_____ wherein said second section of said first capacitor is arranged adjacent to said first section of said second capacitor and said second section of said second capacitor, and

_____ a dielectric interposed between said first, second, third and fourth electrodes.

40. (New) The matched capacitors of Claim 39 wherein the first section and the second section of each capacitor are approximately equal.

41. (New) The matched capacitors of Claim 39 wherein the fringing capacitor includes an even number of portions.

42. (New) The matched capacitors of Claim 39 further comprising a guardband.

43. (New) The capacitor of Claim 42 wherein the guardband is spaced approximately a predetermined distance d_g from the electrodes;

_____ wherein adjacent odd ones and even ones of the portions are spaced apart approximately a predetermined distance d_h ; and

_____ wherein the distance d_g is selected to be about twice the distance d_h .